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State of Nevada Department of Health and Human Services

Update Concerning the Status of COVID-19 in Nevada

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11/19/2020

Helping people. It's who we are and what we do.



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COVID-19 By The Numbers

COVID-19 (Coronavirus) in Nevada

For questions, please contact the DHHS Office of Analytics by emailing data@dhhs.nv.gov.

Data are as of 11/18/2020

Current Status indicators are summarized below. Due to reporting delay, testing measures are considered over a 14-day period with a 7-day lag. This means that the most recent 7-day period is not included in the evaluation period to account for data completeness. Daily new cases and deaths are displayed as 14-day moving averages. Cases and deaths per 100,000 are displayed for the most recent 30-day period and cumulatively. In the maps below, counties with higher rates are shaded darker.

Cases

1,228

14-day rolling average
cases daily

1,004

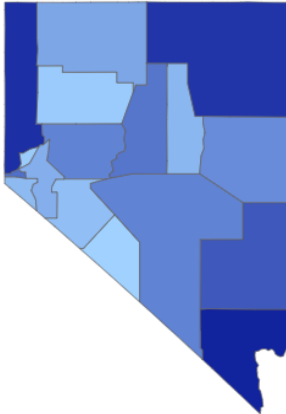
cases per 100,000
over the last 30 days

125,459

cumulative cases

3,849

cumulative cases per
100,000



Deaths

6

14-day rolling average
deaths daily

6

deaths per 100,000
over the last 30 days

1,947

cumulative deaths

62

cumulative deaths per
100,000



Testing

324

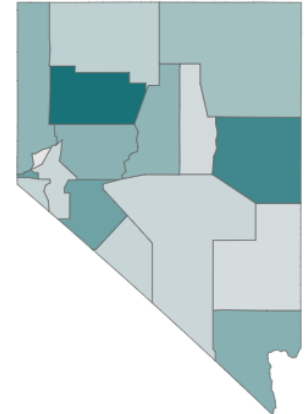
tests/day per 100,000
over the last 14 days

15.6%

test positivity rate
over the last 14 days

1,454,741

cumulative tests



Nevada is now experiencing increases in cases, hospitalizations, and deaths.

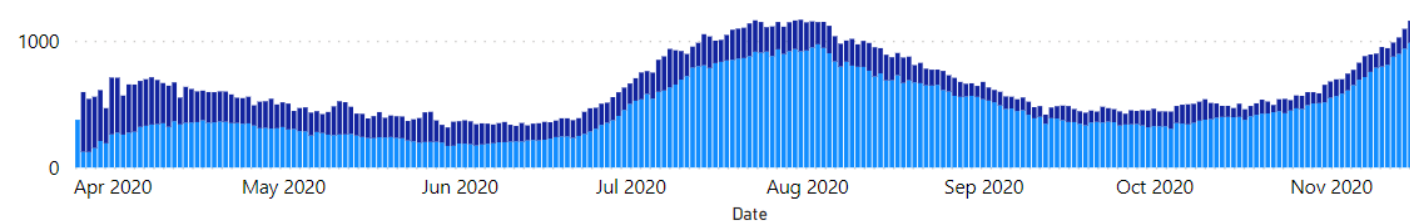
Daily new cases are now regularly higher than previous peak dates in July/August.

Regionally, Nevada is outpacing Arizona and California in cases per 100,000.

COVID-19 By The Numbers

Confirmed and Suspected Hospitalizations

● Confirmed ● Suspected

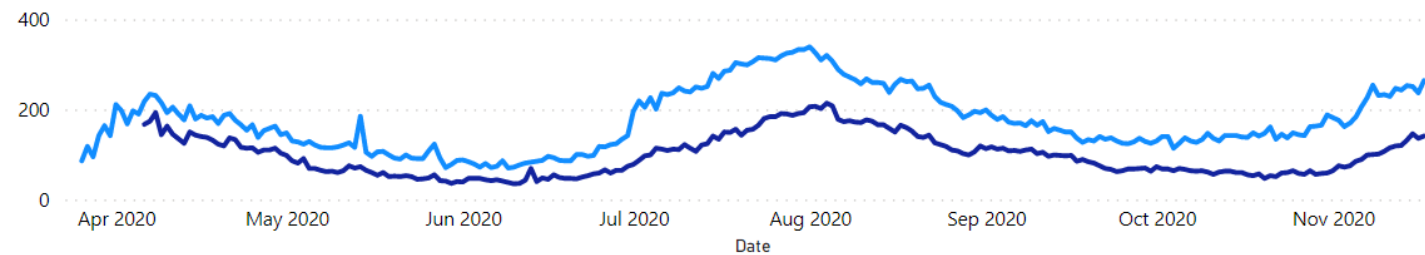


Percent Change in Hospitalizations

Date	Confirmed	Confirmed + Suspected
11/17/2020	8.9%	7.5%
11/16/2020	3.2%	0.2%
11/15/2020	4.9%	5.9%
11/14/2020	4.6%	6.6%
11/13/2020	2.6%	4.1%
11/12/2020	7.9%	4.7%
11/11/2020	1.8%	-0.9%
11/10/2020	1.1%	5.8%
11/9/2020	4.4%	0.8%
11/8/2020	5.8%	1.5%
11/7/2020	3.0%	6.3%
11/6/2020	6.5%	7.3%
11/5/2020	6.9%	4.1%
11/4/2020	4.3%	6.3%
11/3/2020	3.6%	0.1%
11/2/2020	2.4%	2.5%
11/1/2020	7.0%	4.0%
10/31/2020	1.2%	11.5%

Confirmed and Suspected Intensive Care Unit (ICU) and Ventilator Utilization

● Confirmed or Suspected COVID-19 in Intensive Care Unit (ICU) ● Confirmed or Suspected COVID-19 on Ventilator

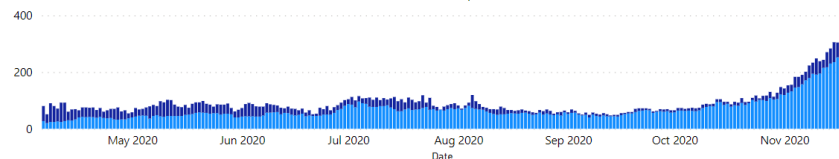


Nevada data are outpacing modeling forecasts for general hospitalizations, but not for critical care hospitalizations.

Northern Nevada

Confirmed and Suspected Hospitalizations

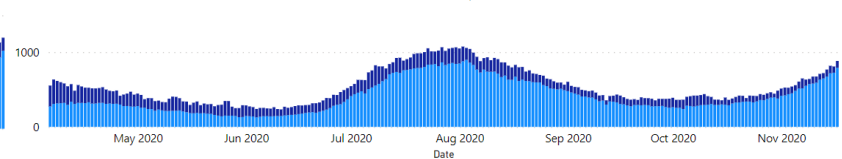
● Confirmed ● Suspected



Southern Nevada

Confirmed and Suspected Hospitalizations

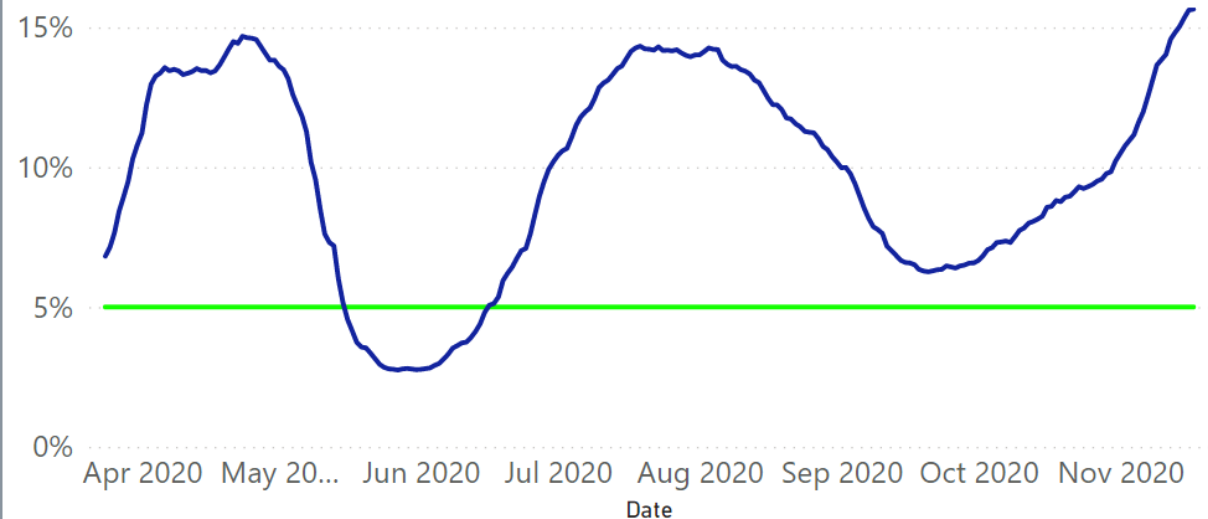
● Confirmed ● Suspected



COVID-19 By The Numbers

14-Day Test Positivity Rate and WHO Goal by Specimen Collection Date

● WHO Goal ● 14-Day Test Positivity Rate (new)



15.6%
test positivity rate
over the last 14 days

Percent Change

Date	14-day Test Positivity Rate	Percent Change
11/17	15.6%	0.2%
11/16	15.6%	1.8%
11/15	15.3%	2.0%
11/14	15.0%	1.5%
11/13	14.8%	1.7%
11/12	14.6%	3.8%
11/11	14.0%	1.4%
11/10	13.8%	1.4%
11/09	13.7%	4.4%
11/08	13.1%	4.5%
11/07	12.5%	4.5%
11/06	12.0%	3.2%

The current 14-day test positivity rate is the highest we have seen to-date, at 15.4%.

This implies wide community spread and potentially many more undiagnosed cases in the community.

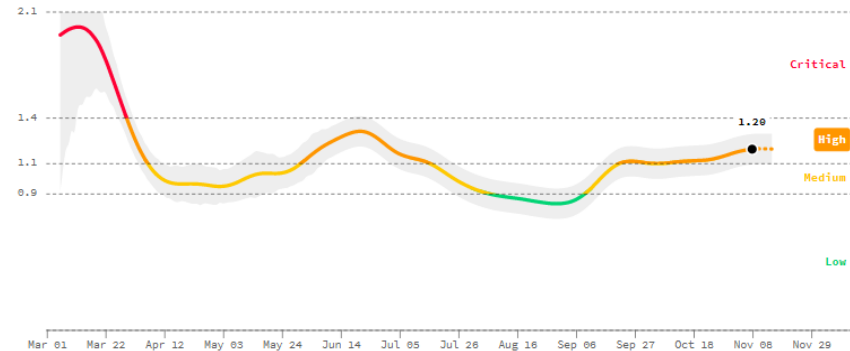


COVID-19 By The Numbers

Data continue to confirm the benefits of non-pharmaceutical interventions.

A recent international study published in the Lancet found that public events bans were associated with the highest reduction in the effective reproduction number (R_t)¹.

- R_t is currently estimated to be approximately 1.2 in Nevada, which means that on average each person in Nevada with COVID-19 is infecting 1.2 other people.
- When R_t is greater than 1, COVID-19 spreads rapidly. When R_t is below 1 infections slow.



Georgia Tech: COVID-19 Event Risk Assessment Planning Tool (available here: <https://covid19risk.biosci.gatech.edu/>)

This tool shows the risk level of attending an event, given the event size and location. The risk level is the estimated chance (0-100%) that at least 1 COVID-19 positive individual will be present at an event, given the size of the event.

Event Size	Current reported incidence	Current reported incidence x5*	Current reported incidence x10
15 people	6.4%	28.5%	49.3%
25 people	10.5%	42.8%	67.7%
50 people	19.9%	67.3%	89.6%
100 people	35.8%	89.3%	98.9%
250 people	67%	>99%	>99%

**Based on seroprevalence data and increases in testing, by default they assume there are five times more cases than are being reported (5:1 ascertainment bias). In places with less testing availability, that bias may be higher.*

¹([https://www.thelancet.com/journals/laninf/article/PIIS1473-3099\(20\)30785-4/fulltext](https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(20)30785-4/fulltext))

COVID-19 Testing Turnaround

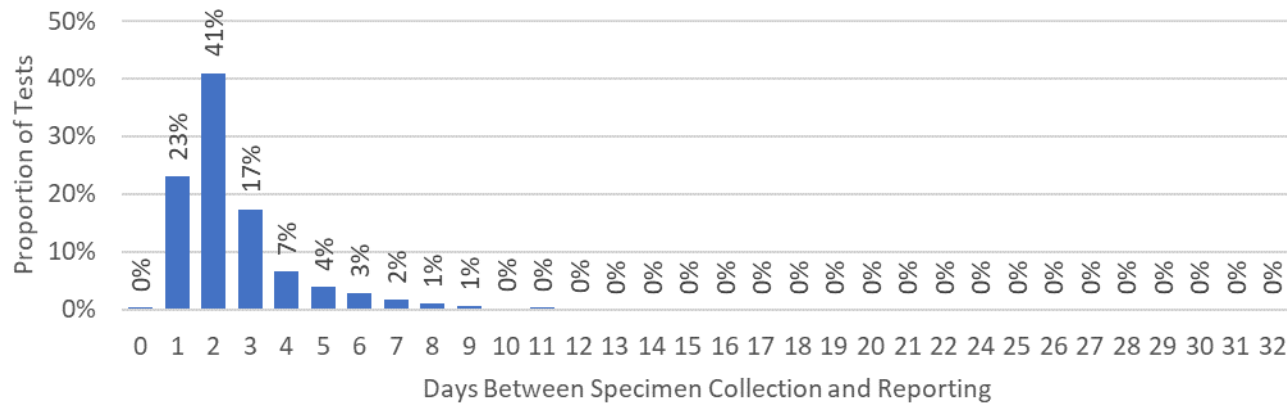
Median Time from Specimen Collection to Report, By County and Lab									
	CPL	LABCORP	NSPHL	Other	QUEST	RRMC	SOUTHERN	UMC	Total
Carson City	-	3	5	2	3	2	2	2	5
Churchill	-	2	5	3	3	2	-	1.5	4
Clark	3	2	7	2	3	2	3	2	2
Douglas	-	3	7	2	3	1	6	-	4
Elko	-	3	6	1	3	3	-	1	4
Esmeralda	-	4	-	2	3	1	2	2	3
Eureka	-	3	-	-	-	1	6	2	3
Humboldt	-	3	7	4	3	2	-	2	5
Lander	-	3	6	2	4	1	-	2.5	6
Lincoln	-	2	6	1	3	-	2	2	2
Lyon	-	3	6	2	3	1	2	1.5	3
Mineral	-	3	5	3	4	1	-	1	4
Nye	2	3	6	2	3	1	3	2	3
Pershing	-	3	6	2	6.5	1	-	1	6
Storey	-	2	6	-	4	2	-	-	2
Washoe	-	3	4	3	3	2	2	1	2
White Pine	-	2	9	1	3	1	6	1	7
Total	3	2	5	2	3	2	3	2	2

For Specimens collected October 15th – current, as of 11/18, it has taken approximately 2 days after specimen collection for results to be reported.

Differences across different counties and laboratories are displayed in the table above.



COVID-19 Testing Turnaround



Distribution of the Number of Days between Specimen Collection to Report, By County

Days	Carson City	Churchill	Clark	Douglas	Elko	Esmeralda	Eureka	Humboldt	Lander	Lincoln	Lyon	Mineral	Nye	Pershing	Storey	Washoe	White Pine	Total
0	0%	1%	0%	1%	2%	0%	0%	2%	1%	5%	1%	0%	1%	0%	2%	1%	1%	0%
1	5%	8%	25%	11%	4%	14%	8%	9%	4%	35%	22%	3%	12%	2%	17%	22%	2%	23%
2	14%	16%	47%	18%	24%	20%	8%	15%	7%	33%	25%	15%	37%	2%	45%	28%	22%	41%
3	16%	21%	17%	20%	19%	32%	78%	11%	6%	20%	16%	15%	36%	6%	11%	21%	10%	17%
4	10%	12%	5%	11%	10%	30%	2%	11%	7%	2%	10%	22%	10%	1%	6%	14%	2%	7%
5	21%	30%	2%	12%	8%	2%	2%	9%	26%	2%	6%	17%	3%	19%	6%	8%	1%	4%
6	22%	7%	1%	4%	15%	0%	2%	16%	28%	4%	8%	16%	0%	29%	9%	4%	4%	3%
7	6%	5%	1%	10%	13%	2%	0%	20%	16%	0%	6%	7%	0%	5%	0%	1%	10%	2%
8	2%	0%	1%	3%	3%	0%	0%	6%	6%	0%	1%	1%	0%	21%	0%	0%	11%	1%
9	1%	0%	0%	1%	3%	0%	0%	1%	0%	0%	1%	0%	0%	11%	0%	1%	14%	1%
10	2%	0%	0%	2%	0%	0%	0%	0%	0%	0%	3%	0%	0%	4%	2%	0%	9%	0%
11	2%	0%	0%	5%	0%	0%	0%	0%	0%	0%	1%	4%	0%	0%	2%	0%	14%	0%
12	0%	0%	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
13	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
14	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
15	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

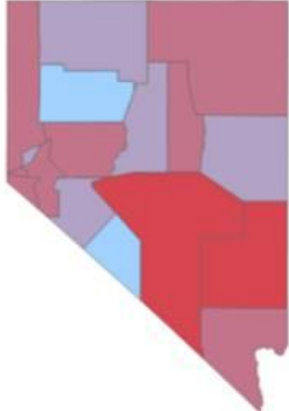


COVID-19 County Tracker

Data as of 11/09/2020

County Tracker: Nevada's counties are diverse in so many ways and have been impacted by COVID-19 differently. In order to ensure that each county is assessed for elevated disease transmission this tracker will be updated daily. Monday snapshots are used for discussion in COVID-19 Mitigation and Management Task Force meetings. A county is flagged for elevated disease transmission if it meets two of the three criteria:

- 1. Average number of tests per day (per 100,000) < 100.** The average number of molecular tests conducted in the most recent complete two week period in a county, divided by the number of people living in the county. This number is then multiplied by 100,000 to control for varying populations in counties. Due to reporting delay, this is reported over a 14-day period with a 7-day lag. Counties that average fewer than 100 tests per day will meet this criterion.
- 2. Cases (per 100,000) > 200.** The total number of cases diagnosed and reported over a 30-day period divided by the number of people living in the county. This number is then multiplied by 100,000 to control for varying populations in counties. Counties with a case rate greater than 200 per 100,000 will meet this criterion.
- 3. Cases (per 100,000) > 50 AND testing positivity > 8.0%.** The total number of positive molecular tests divided by the total number of molecular tests conducted. This number is then multiplied by 100 to get a percentage. Due to reporting delay (which may be different between positive and negative tests), this is reported over a 14-day period with a 7-day lag. Counties with a test positivity > 8.0% paired with case rate greater than 50 per 100,000 will meet this criterion.



Map shading is based on the number of criteria met. Hover your cursor over a county to display more data.

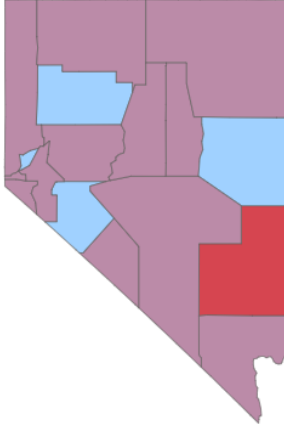
County	Average Number of Tests per Day per 100,000 (14-day average with 7-day lag)	Cases per 100,000 (last 30 days)	Test Positivity (14-day with 7-day lag)
Carson City	388	1,172	10.6%
Churchill	302	920	11.0%
Clark	282	701	11.1%
Douglas	125	362	10.9%
Elko	275	922	11.7%
Esmeralda	125	0	0.0%
Eureka	62	203	5.9%
Humboldt	100	264	7.1%
Lander	349	417	5.5%
Lincoln	32	327	30.4%
Lyon	137	460	13.2%
Mineral	301	504	3.6%
Nye	99	407	18.3%
Pershing	1,538	72	0.0%
Storey	29	22	5.6%
Washoe	312	1,025	12.8%
White Pine	783	718	2.1%

COVID-19 County Tracker

Data as of 11/16/2020

County Tracker: Nevada's counties are diverse in so many ways and have been impacted by COVID-19 differently. In order to ensure that each county is assessed for elevated disease transmission this tracker will be updated daily. Monday snapshots are used for discussion in COVID-19 Mitigation and Management Task Force meetings. **A county is flagged for elevated disease transmission if it meets two of the three criteria:**

- 1. Average number of tests per day (per 100,000) < 100.** The average number of molecular tests conducted in the most recent complete two week period in a county, divided by the number of people living in the county. This number is then multiplied by 100,000 to control for varying populations in counties. Due to reporting delay, this is reported over a 14-day period with a 7-day lag. Counties that average fewer than 100 tests per day will meet this criterion.
- 2. Cases (per 100,000) > 200.** The total number of cases diagnosed and reported over a 30-day period divided by the number of people living in the county. This number is then multiplied by 100,000 to control for varying populations in counties. Counties with a case rate greater than 200 per 100,000 will meet this criterion.
- 3. Cases (per 100,000) > 50 AND testing positivity > 8.0%.** The total number of positive molecular tests divided by the total number of molecular tests conducted. This number is then multiplied by 100 to get a percentage. Due to reporting delay (which may be different between positive and negative tests), this is reported over a 14-day period with a 7-day lag. Counties with a test positivity > 8.0% paired with case rate greater than 50 per 100,000 will meet this criterion.

County	Average Number of Tests per Day per 100,000 (14-day average with 7-day lag)	Cases per 100,000 (last 30 days)	Test Positivity (14-day with 7-day lag)
			
Carson City	446	2,108	23.6%
Churchill	508	1,461	14.8%
Clark	307	865	13.2%
Douglas	152	447	13.4%
Elko	246	1,095	18.6%
Esmeralda	81	513	0.0%
Eureka	120	254	15.2%
Humboldt	126	387	12.9%
Lander	297	617	9.2%
Lincoln	41	500	46.7%
Lyon	169	702	19.0%
Mineral	511	636	6.7%
Nye	120	518	21.7%
Pershing	970	287	0.6%
Storey	48	67	6.7%
Washoe	356	1,372	16.2%
White Pine	536	935	7.4%

Map shading is based on the number of criteria met. Hover your cursor over a county to display more data.

These data include prison cases. We can adjust this to exclude prisons upon request. A preliminary analysis was done, and results did change significantly for 5 counties, but not significant enough to bring them out of an elevated transmission status.

COVID-19 County Tracker

Testing per day per 100,000:

Data trended below correspond to the most recent 15 Mitigation and Management Task Force meetings.

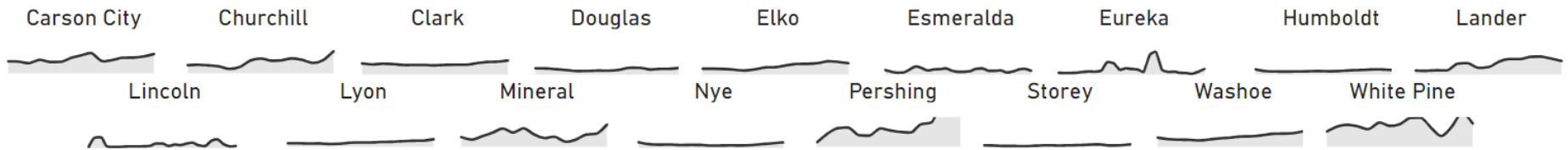
Testing per Day per 100,000

Cases per 100,000

Test Positivity Rate

Average Number of Tests per Day per 100,000: Threshold < 100, measured as a 14-day average with a 7-day lag

	8/13/2020	8/19/2020	8/26/2020	8/31/2020	9/7/2020	9/14/2020	9/21/2020	9/28/2020	10/5/2020	10/12/2020	10/19/2020	10/26/2020	11/2/2020	11/9/2020	11/16/2020
Carson City	275	269	233	310	260	264	352	413	465	280	306	359	362	388	446
Churchill	185	195	180	158	99	144	292	343	289	300	345	309	238	302	508
Clark	240	221	236	227	207	210	208	199	211	214	215	248	274	282	307
Douglas	135	132	115	94	75	78	86	85	99	148	145	109	123	125	152
Elko	125	127	120	105	85	112	154	160	199	230	234	247	290	275	246
Esmeralda	132	81	59	59	73	125	132	81	81	88	44	66	110	125	81
Eureka	105	134	120	109	58	432	494	105	54	62	36	33	15	62	120
Humboldt	111	71	65	63	66	69	75	70	75	90	97	109	110	100	126
Lander	86	81	92	89	235	248	145	161	282	340	340	387	393	349	297
Lincoln	43	95	95	41	71	59	95	113	54	41	154	184	81	32	41
Lyon	74	77	68	72	59	64	88	95	95	106	110	124	133	137	169
Mineral	219	160	236	321	420	326	426	280	197	226	113	160	277	301	511
Nye	120	80	69	73	62	65	63	49	52	55	51	62	83	99	120
Pershing	102	304	428	441	264	253	418	373	340	328	521	566	1157	1538	970
Storey	27	21	11	11	8	19	29	22	27	32	42	48	24	29	48
Washoe	207	172	159	155	140	165	191	208	233	237	260	296	301	312	356
White Pine	351	468	507	466	405	557	482	520	665	671	435	244	469	783	536



COVID-19 County Tracker

Case Rate per 100,000:

Data trended below correspond to the most recent 15 Mitigation and Management Task Force meetings.

Testing per Day per 100,000

Cases per 100,000

Test Positivity Rate

Case Rate per 100,000: Threshold case rate > 200 per 100,000, measured over the previous 30 days

	8/13/2020	8/19/2020	8/26/2020	8/31/2020	9/7/2020	9/14/2020	9/21/2020	9/28/2020	10/5/2020	10/12/2020	10/19/2020	10/26/2020	11/2/2020	11/9/2020	11/16/2020
Carson City	322	283	260	218	184	198	210	230	242	253	424	555	745	1,172	2,108
Churchill	220	228	305	274	186	155	120	155	201	201	236	290	518	920	1,461
Clark	888	768	651	574	490	390	314	302	315	356	421	490	559	701	865
Douglas	153	121	93	76	70	64	83	89	123	167	179	197	264	362	447
Elko	471	446	444	393	362	233	158	178	182	256	396	513	682	922	1,095
Esmeralda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	513
Eureka	51	51	51	102	203	203	203	153	0	0	0	0	51	203	254
Humboldt	375	375	117	158	82	70	59	100	100	147	182	211	275	264	387
Lander	150	150	183	133	200	233	150	117	233	300	400	517	434	417	617
Lincoln	38	38	58	38	19	0	0	0	0	154	327	346	481	327	500
Lyon	88	100	107	110	126	128	140	152	133	205	231	276	316	460	702
Mineral	22	44	110	373	460	482	351	197	88	22	22	241	329	504	636
Nye	311	260	229	174	117	63	35	29	37	49	74	170	237	407	518
Pershing	14	43	57	72	72	29	14	14	14	29	57	86	72	72	287
Storey	22	0	0	0	0	0	0	0	22	45	22	67	22	22	67
Washoe	435	381	335	292	299	278	316	397	412	463	545	612	783	1,025	1,372
White Pine	76	85	132	123	198	255	246	331	302	340	378	406	397	718	935

Carson City

Churchill

Clark

Douglas

Elko

Esmeralda

Eureka

Humboldt

Lander

Lincoln

Lyon

Mineral

Nye

Pershing

Storey

Washoe

White Pine

COVID-19 County Tracker

Test Positivity Rate:

Data trended below correspond to the most recent 15 Mitigation and Management Task Force meetings.

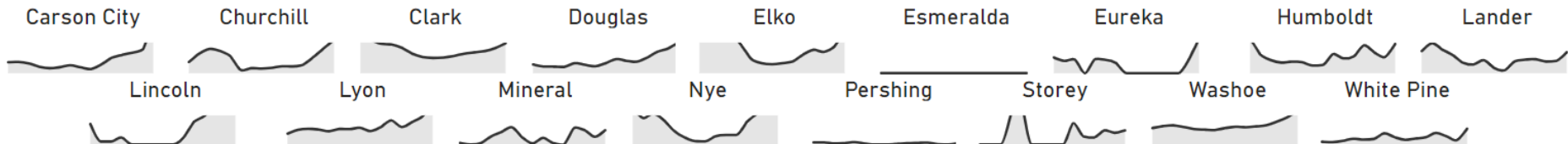
Testing per Day per 100,000

Case Rate per 100,000

Test Positivity Rate

Test Positivity Rate: Threshold > 8%, measured over a 14-day period with a 7-day lag

	8/13/2020	8/19/2020	8/26/2020	8/31/2020	9/7/2020	9/14/2020	9/21/2020	9/28/2020	10/5/2020	10/12/2020	10/19/2020	10/26/2020	11/2/2020	11/9/2020	11/16/2020
Carson City	4.8%	5.0%	4.3%	2.8%	2.2%	2.6%	3.5%	2.5%	1.8%	3.8%	6.8%	8.1%	9.1%	10.6%	23.6%
Churchill	4.9%	8.7%	10.7%	9.8%	7.5%	1.3%	2.2%	2.0%	2.4%	3.0%	3.0%	3.7%	7.1%	11.0%	14.8%
Clark	15.5%	14.6%	13.0%	12.6%	11.2%	8.6%	7.1%	6.7%	6.9%	7.6%	8.6%	9.2%	9.8%	11.1%	13.2%
Douglas	3.8%	3.0%	2.9%	2.8%	4.4%	3.7%	3.0%	4.4%	6.2%	5.5%	5.1%	6.9%	9.5%	10.9%	13.4%
Elko	15.1%	14.8%	16.8%	17.9%	12.6%	6.2%	4.4%	4.0%	4.4%	5.2%	8.2%	10.3%	9.4%	11.7%	18.6%
Esmeralda	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Eureka	6.9%	5.4%	6.1%	0.0%	6.3%	5.9%	4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	15.2%
Humboldt	15.4%	8.2%	5.8%	4.7%	5.1%	4.8%	3.4%	3.6%	8.4%	6.5%	7.4%	12.3%	9.1%	7.1%	12.9%
Lander	9.7%	13.2%	10.4%	8.0%	4.6%	3.8%	5.7%	2.2%	1.3%	5.3%	6.0%	6.2%	5.2%	5.5%	9.2%
Lincoln	9.7%	1.4%	1.4%	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%	3.3%	10.7%	13.4%	18.6%	30.4%	46.7%
Lyon	5.2%	6.9%	7.4%	7.1%	6.3%	7.4%	7.3%	7.9%	6.3%	8.2%	11.4%	8.2%	10.5%	13.2%	19.0%
Mineral	0.7%	0.0%	0.7%	3.9%	6.0%	8.2%	3.3%	0.6%	3.2%	0.7%	0.0%	7.8%	6.8%	3.6%	6.7%
Nye	17.2%	12.4%	14.7%	11.4%	6.4%	3.4%	1.6%	1.5%	4.0%	4.5%	4.6%	10.6%	14.6%	18.3%	21.7%
Pershing	1.0%	1.0%	0.5%	0.7%	1.2%	0.4%	0.0%	0.0%	0.3%	0.6%	0.8%	0.9%	0.2%	0.0%	0.6%
Storey	0.0%	0.0%	0.0%	14.3%	20.0%	0.0%	0.0%	0.0%	0.0%	10.0%	3.8%	3.3%	6.7%	5.6%	6.7%
Washoe	7.8%	8.7%	9.1%	8.3%	7.3%	7.0%	6.9%	7.8%	8.4%	8.2%	8.5%	9.1%	10.8%	12.8%	16.2%
White Pine	1.3%	1.2%	1.7%	2.7%	2.3%	2.7%	5.3%	3.5%	2.2%	2.8%	3.4%	5.5%	3.9%	2.1%	7.4%





Discussion

To request additional data, email the DHHS Office of Analytics at data@dhhs.nv.gov

